

at1121exam__practice EXAMPLE! DO NOT HAND IN FOR CREDIT (v17)

- If you are looking for a practice exam that you can hand in for credit:

<https://chadworley.github.io/algtwo2026/u04/1121/at1121exam/at1121exam.html>

Question 1

Simplify the radical expressions.

$$\sqrt{18}$$

$$\sqrt{98}$$

$$\sqrt{63}$$

Question 2

Find all solutions to the equation below:

$$\frac{(x + 7)^2 + 6}{2} = 53$$

Question 3

By [completing the square](#), find both solutions to the given equation. *You must show work for full credit!*

$$x^2 + 12x = 85$$

Question 4

A quadratic polynomial function is shown below in standard form.

$$y = 3x^2 + 30x + 81$$

Express the function in **vertex form** and identify the **location** of the vertex.